## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20584

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : E21B 19/18						
US CL : 166/380,77.51						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)						
U.S.: 166/380,77.51,77.52,77.53,85.5,88.4,77.1,379; 175/202						
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
rease see Communion Speet						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where ap	propriate,	of the relevant passages	Relevant to claim No.		
X,P	US 2004/0079533 A1 (BUYTAERT et al) 29 April	2004 (29.0	4.2004), Figures 4,5,6,	· 2-11		
	paragraphs 34-41.			<b>!</b>		
A	US 4,208,158 A (DAVIES et al) 17 June 1980 (17.0	)6.1980), <sub>1</sub>	whole document.	1-11		
A	US 6,131,664 A (SONNIER) 17 October 2000 (17.					
^	05 0,151,004 A (SONNIER) 17 October 2000 (17.	10.2000),	whole document.	1-11		
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	r documents are listed in the continuation of Box C.		See patent family annex.			
* s	pecial categories of cited documents:	"T"	later document published after the in priority date and not in conflict with			
	t defining the general state of the art which is not considered to		understand the principle or theory u	nderlying the invention		
be of par	ticular relevance	*X*	document of particular relevance; th			
	pplication or patent published on or after the international filing	^	considered novel or cannot be consi	dered to involve an inventive		
date			step when the document is taken alo	ne		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such			
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		*&*	document member of the same pater	t family		
"P" document published prior to the international filing date but later than the			•			
			pailing of the international sea	arch report		
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29 October 2004 (29.10.2004)			- C O E O O T	<del></del>		
Name and mailing address of the ISA/US  Mail Stop PCT, Aun: ISA/US			Authorized officer			
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	International application No.			
INTERNATIONAL SEARCH REPORT	PCT/US04/20584			
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Continuation of B. FIELDS SEARCHED Item 3:				
EPO, JPO, Derwent				
Terms: control line(s), spider, elevator, hydraulic line(s), electric line(s)				

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